

Fig. 1

## Positivity Index

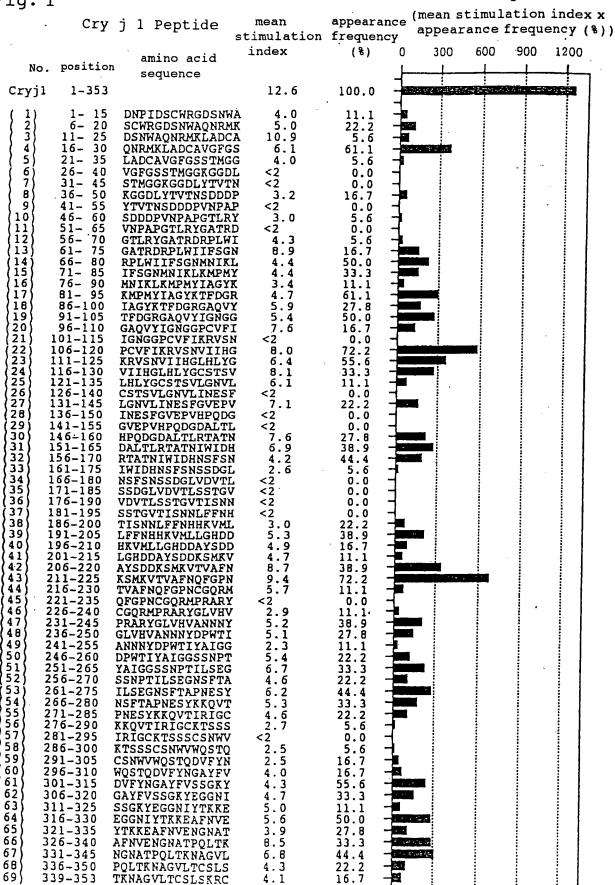
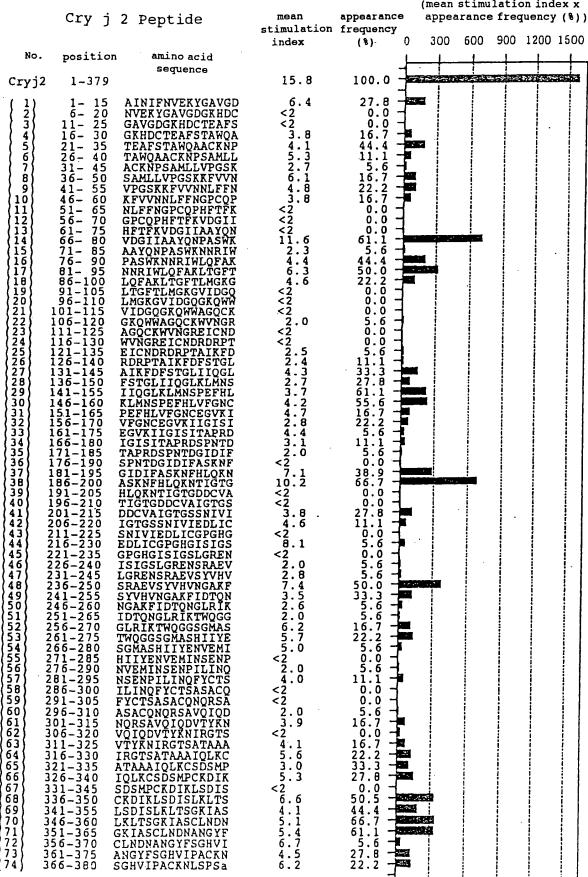


Fig. 2

## Positivity Index (mean stimulation index x



T cell	epitope site	Restriction	lympho	okine pro (pg/ml)	duction	Th*
clone	No. Positio	n molecule	IL·2	IFNγ	IL-4	type
PJ4-6	4 16- 30	DQA1*0102 DQB1*0602	<31	1500	334	Th0
PB8-1	4 16- 30	<b>.</b>	<31	<31	814	Th2
PB9-37	13 61- 75	DPA1*0101-DPB1*0501	<31	<31	7760	Th2
PB10-24	13 61- 75	**	39	151	4500	Th2
PJ1-27	19 91-105	DQ	32	1220	224	ThO
PB3-27	22 106-120	DRB5*0101	250	332	21000	Th2
PB8-2	22 106-120	п	190	2110	5709	Th0
PB8-3	22 106-120	ee .	<31	1270	10100	Th0
PB9-39	22 106-120	H	48	51	5120	Th2
PB10-18	22 106-120	н .	410	46	7840	- Th2
PJ4-29	22 106-120	. и	4680	14200	6610	Th0
PJ7-9	22 106-120	· <b>H</b>	1370	1040	12200	Th2
PJ5-6	30 145-160	DQA1*0102-DQB1*0602	1500	1170	5920	Th0
PJ5-9	30 145-160	•	1720	825	266	Th0
PB11-21	31 151-165	DRB1*0901	4190	>20000	4510	Th0
PB11-24	31 151-165	P	670	11700	1950	Th0
PB6-37	31 151-165	**	<31	<31	49	Th2
PB1-8	39 191-205	DQA1*0102-DQB1*0602	820	188	1760	Th0
PB9-34	39 191-205	DRB1*0901 Or DRB4*0101	<31	86	1680	Th2
PB2-14	43 211-225	DPA1*0101-DPB1*0501	<31	376	2320	Th0
PB7-2	43 211-225	*	84	2740	2080	Th0
PB8-32	43 211-225	и	<31	4870	1840	Th0
PB8-34	43 211-225	и	78	14800	3040	Th0
PB11-23	43 211-225	**	<31	3990	1260	Th0
PB11-26	43 211-225	**	32	1100	6520	Th0
B4-20	43 211-225	<b>H</b>	<31	<31	133	Th2
PB10-4	43 211-225	и	<31	<31	4170	Th2
B8-4	51 251-265	DQA1*0102-DQB1*0602	44	36	4050	Th2
J4-20	66 326-340	DQA1*0102-DQB1*0602	560	3080	<32	Thl

<sup>\*</sup> IL-4/IFN- $\gamma$ > 10 and IFN- $\gamma$ /IL-4 > 10 are defined to be Th2 and Th1, respectively, and Th0 means inbetween.

Fig. 4

Th type of T cell clone capable of recognizing Cry j 2

m11	epitope s	site Restriction	lympho		oduction	Th*
Tcell			IL·2	(pg/ml) IFNy	<u>L</u> [L-4	type
clone	No. Posi	tion molecule		TEMI	15 4	
PB5-29	4 16- 30	DRB1*0901 OT DRB4*010	1 <31	503	97	Th0
PB11-40	4 16- 30	o <b>"</b>	<31	<31	50	Th2
PB14-4	4 16- 30	) "·	<31	<31	<16	Thp
PB12-33	8 36- 50	DRB1*1501	<31	>8000	<16	Th1
PR2-25	8 36- 50	o "	47	<31	977	Th2
PR5-40	8 36- 50	) "	1150	1330	355	Th0
PB3-32	14 66- 80	DRB5*0101	<31	<31	323	Th2
PB4-21	14 66-80	) "	<31	109	239	Th0
PB4-22	14 66- 80	) "	<31	483	158	Th0
PC1-8	14 66- 80	) "	<31	2710	32	Th1
PR4-20	14 66- 80	) "	<31	312	338	Th0
PR3-21	14 66-80	) ."	<31	<31	338	Th2
PB13-18	17 76- 90	DPA1*0101-DPB1*0501	<31	3320	231	Thl
PB11-32	17 76- 90	) "	138	60	2090	Th2
PR1-20	31 151-165	DRB1*0901	<31	<31	18	Th2
PR4-39	31 151-165	5 "	<31	<31	<16	Thp
PB14-5	37 181-195	DPA1*0101-DPB1*0201	87	126	469	ፕኬ0
PB14-13	37 181-195	5 "	<31	5'9	2440	Th2
PB14-34	38 186-200	DRB4*0101	186	420	93	ThO
PC3-40	38 186-200	) <b>"</b>	<31	<31	379	Th2
PB5-3	48 236-250	DRB1*1501 or DRB5*010	L 2570	>8000	525	Thl
PR2-34	65 321-335	DRB1*0901	57	1990	464	ThO
PR3-30	66 326-340	DQA1*0102-DQB1*0602	<31	106	<80	Th1
PR5-18	66 326-340	"	<31	<31	<16	Thp
PC1-13	68 336-350	DPA1*0202-DPB1*0501	<31	<31	<16	Thp
PB12-8	69 341-355	DQA1*0102-DQB1*0602	<31	3210	<16	Thl
PR5-12	69 341-355		<31	<31	2528	Th2
PR2-31	69 341-355		<31	<31	332	Th2
PB14-19	70 346-360	, "	<31	3730	<16	Thl
PB13-38	70 346-360	, "	<31	2020	<16	Th1

<sup>\*</sup> IL-4/IFN- $\gamma$ > 10 and IFN- $\gamma$ /IL-4 > 10 are defined to be Th2 and Th1, respectively, Th0 means inbetween, and Thp means not showing the production of lymphokine.

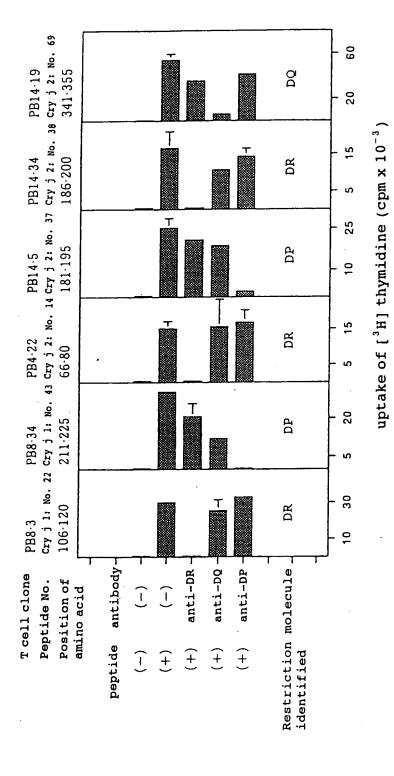
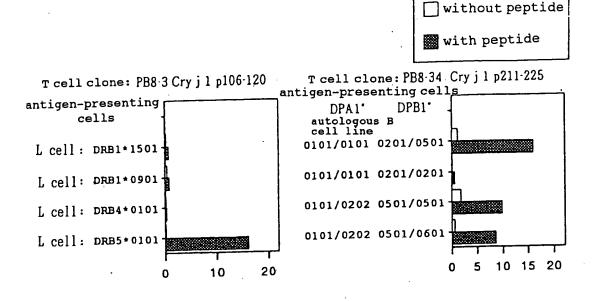
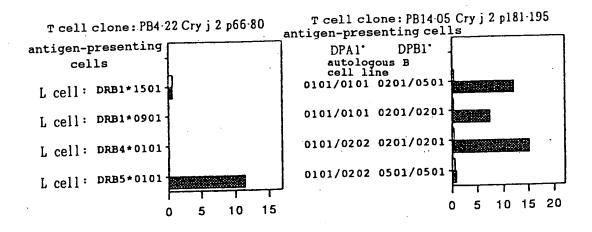
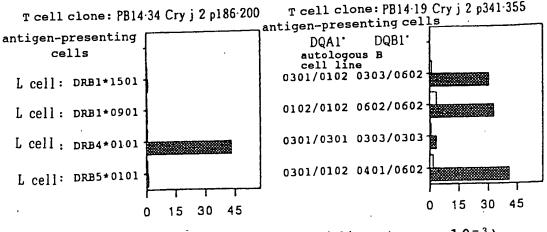


Fig. 6







uptake of [ $^{3}$ H] thymidine (cpm x  $10^{-3}$ )

## Fig. 7

Gly Tyr Phe

a	Lys	Ser	Met	Lys	Val	Thr	Val	Ala	Phe	Asn	Gln	Phe	Gly	Pro	Asn	Cer	10 ]	43	
b	Pro	Cys	Val	Phe	Ile	Lys	Arg	Val	Ser	Asn	Val	Ile	Ile	His	Gly	~ ¢		11	
	Val																uje	14	150 - 210
	Gly																<u>I</u> le	37	p181-200
	Gly	Thr	Gly				٠				•			-					1346-36
е	Leu	Lys	Leu	Thr	Ser	Gly	Lys	Ile	Ala	Ser	Cys	Leu	Asn	Asp	Asn	Ala	Asn	31	1 ′

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Reactivity of Peptide Compositions (#1 - #6) with Human IgE

Fig. 8

		2	‡	¢ (	* * 7	# 4 0	# 4 (	# 4 0
Sample No. (sera)	Blank e	extracted antigen	C.A. # 1		,	.	اء	۲.۲. ۵
1	3	2105	5	4	3	4	4	4
2	3	1133	4	4	4	4	4	4
3	3	1126	3	3	3	4	4	3
4	3	1095	4	3	. 3	3	3	3
5	3	1047	3	3	3	3	3	3
9	3	1003	3	4	3	3	3	3
7	4	710	4	4	4	4	4	4
8	3	521	3	3	3	3	3	3
6	3	314	3	3	4	3	4	4
10	3	298	3	3	4	4	4	3
11	3	279	3	3	3	3	3	3
12	3	253	3	3	3	3	3	3
13	33	239	3	3	6	3	3	3
14	3	235	4	4	3	3	3	3
15	3	233	3	3	8	3	4	3
16	3	226	4		3	3	3	3
17	3	190	3	က	3	3	3	3
18	E	162	4	4	4	4	4	4
19	3	123	3		E.	3	3	3
20	6	106	3	3	3	3	4	3
21	4	45	3	3	3	3	3	4
22	3	14	3	3	3	3	3	3
23	3	13	6	9	6	ε	3	3
24	6	11	8	6	6	3	3	3
2.5	3	5	4	3		3	4	4
26	3	4	4	4	3	4	4	3
2.7	3	3	3	3	3	3	3	3
2.8	9	3	3	3	3		3	3
29	က	3	3	4	3		8	6
Rabbit anti-peptide IgG	112	230	3754	3829	3769	3716	3841	3798

uptake of [ $^{3}$ H] thymidine (cpm x  $10^{-3}$ )

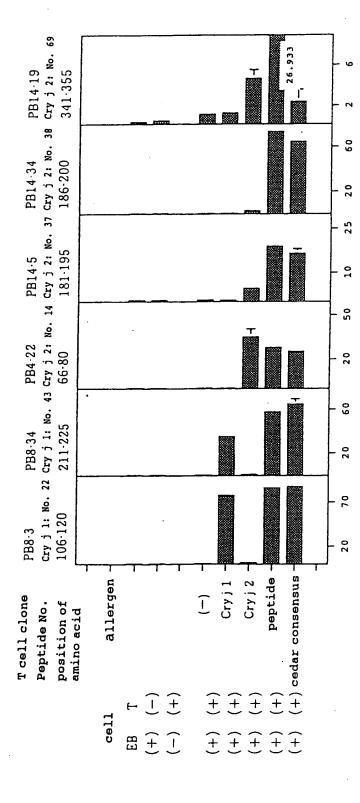
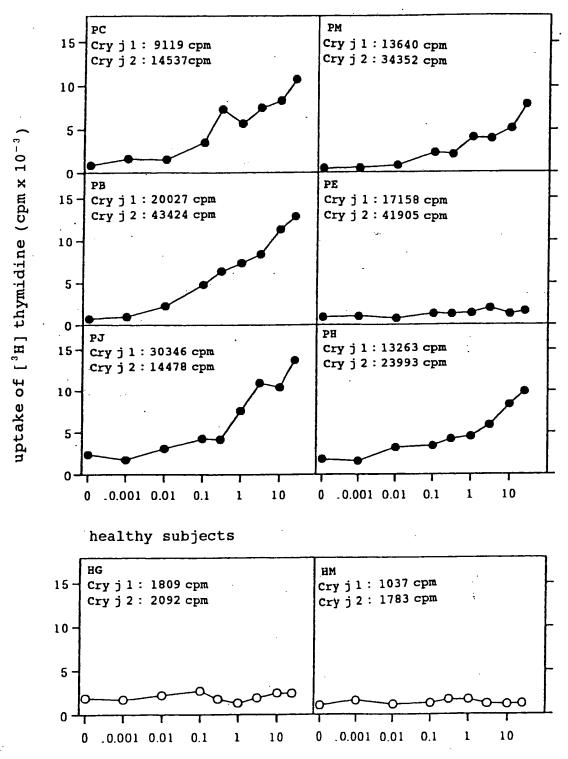


Fig. 10





consensus allergen ( $\mu$ g/ml)

Fig. 11

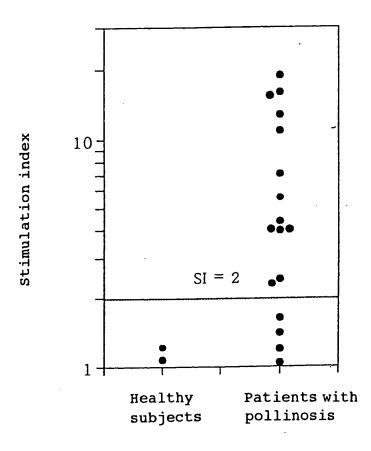


Fig. 12

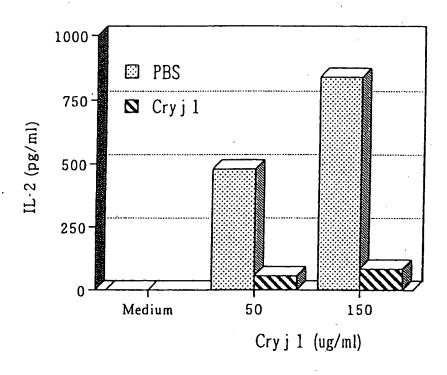


Fig. 13

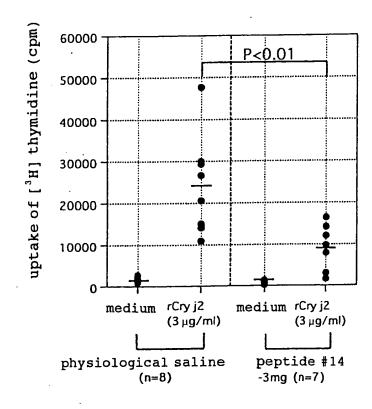
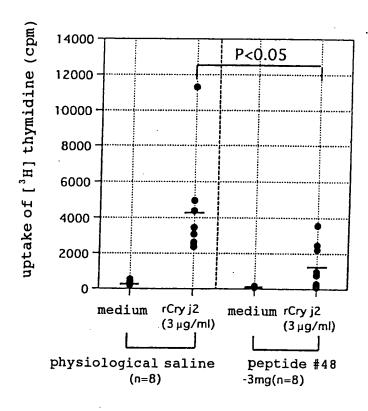


Fig. 14



T cell clone

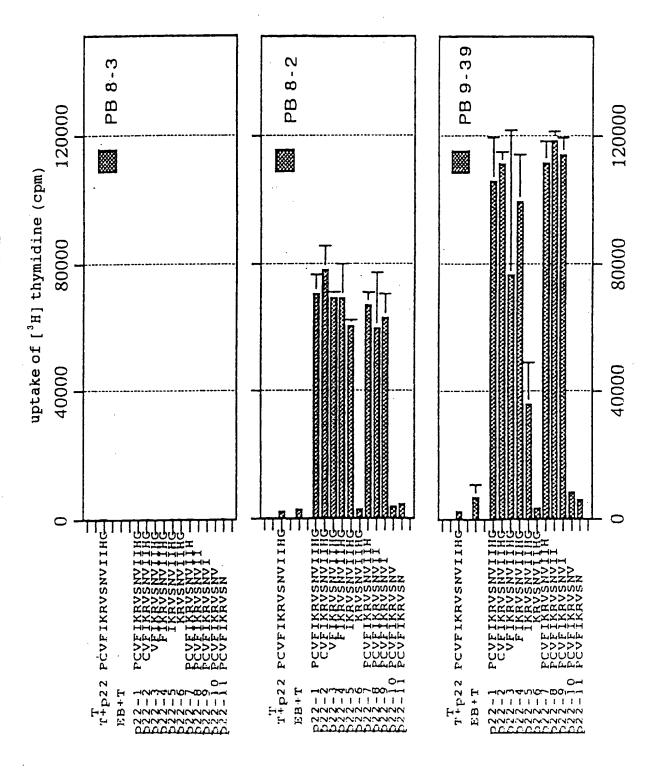


Fig. 15 (2)

T cell line

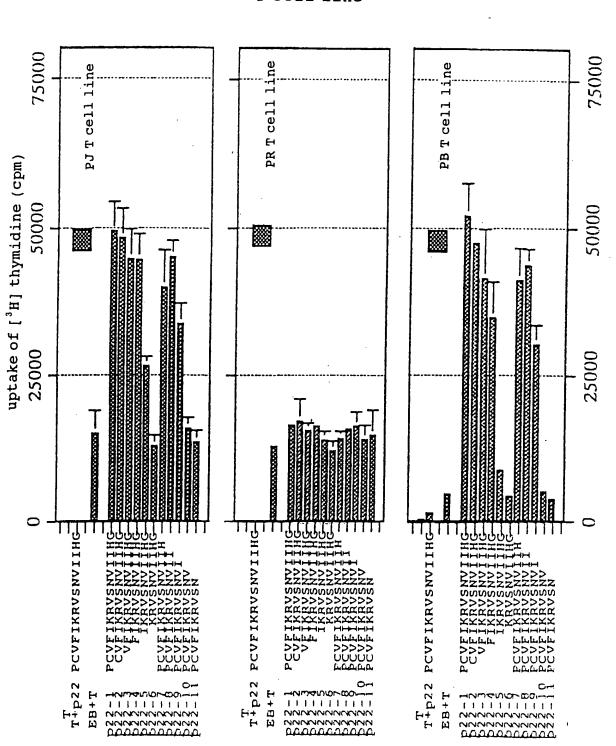


Fig. 16

